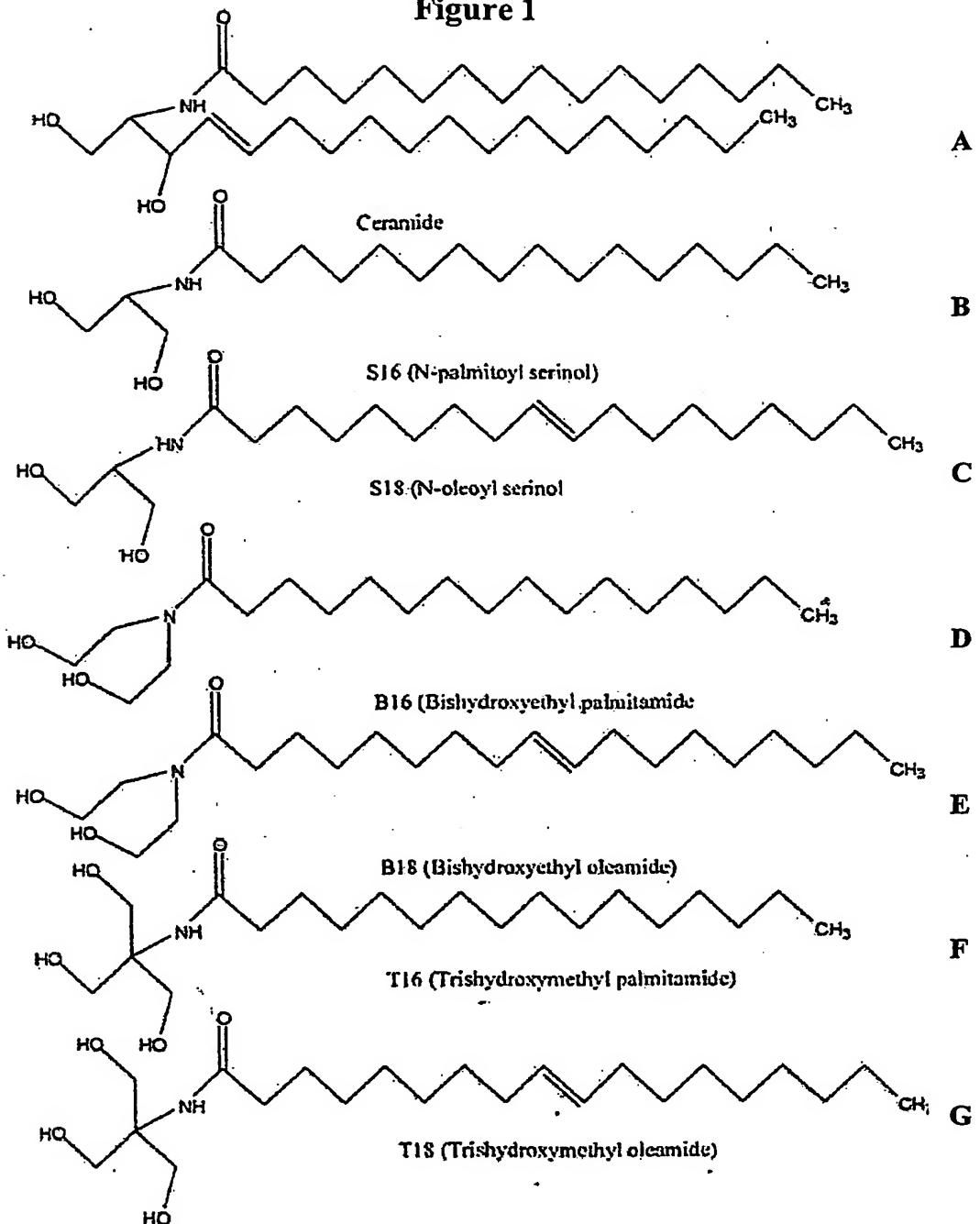


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Figure 1



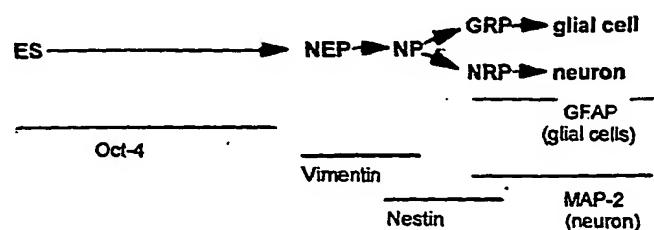
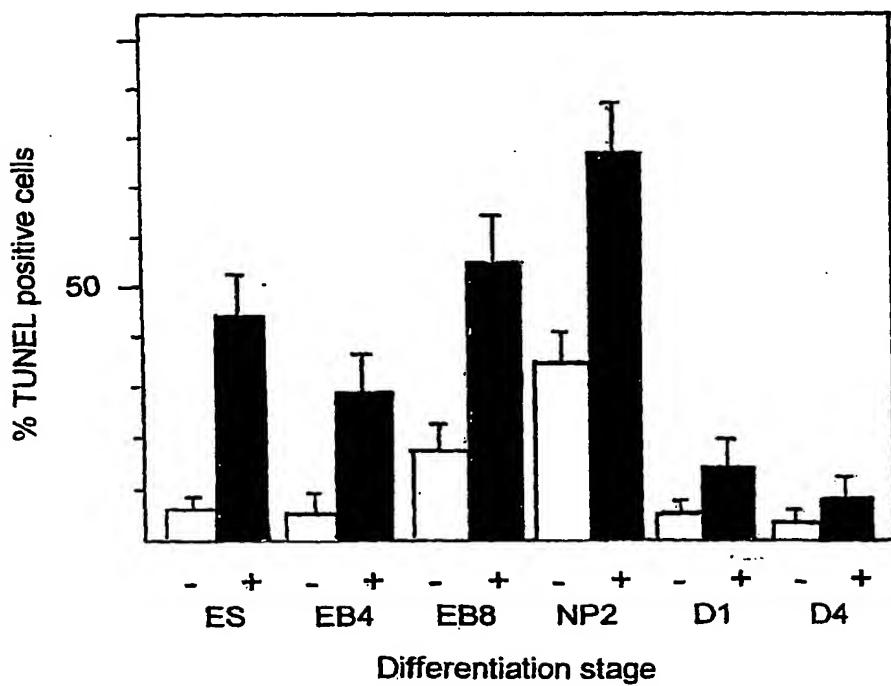
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Figure 2

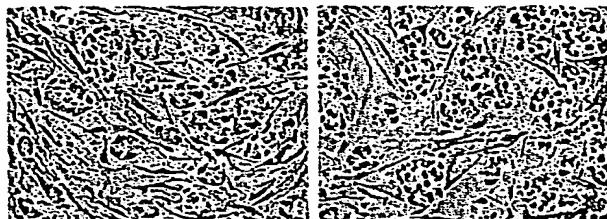
DIV 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25			
ES								EB								NP				D							
1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	9	1	2	3	4	1	2	3	4			
serum + LIF								serum w/o LIF								no serum + N2				no serum + N2 + FGF-2				serum			

**Figure 3**

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Figure 4

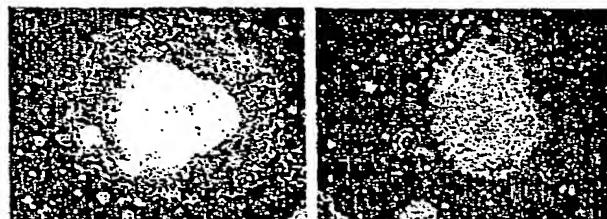
ES cells on feeder fibroblasts (ES3)



A

B - +

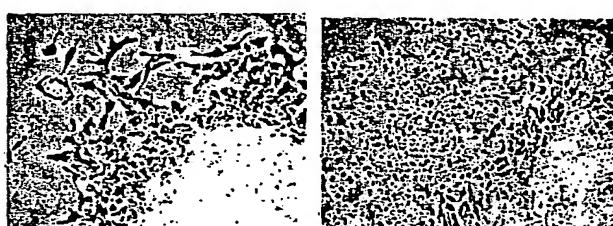
Early EB (EB4)



C

D - +

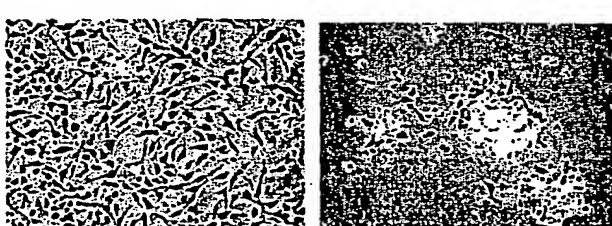
Late EB (EB8)



E

F - +

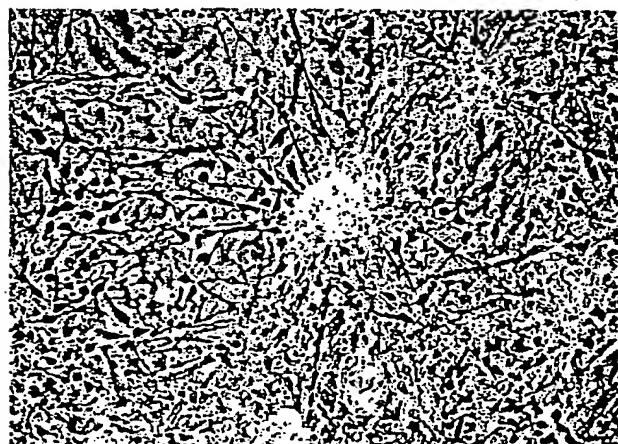
Neuroprogenitor stage (NP2)



G

H - +

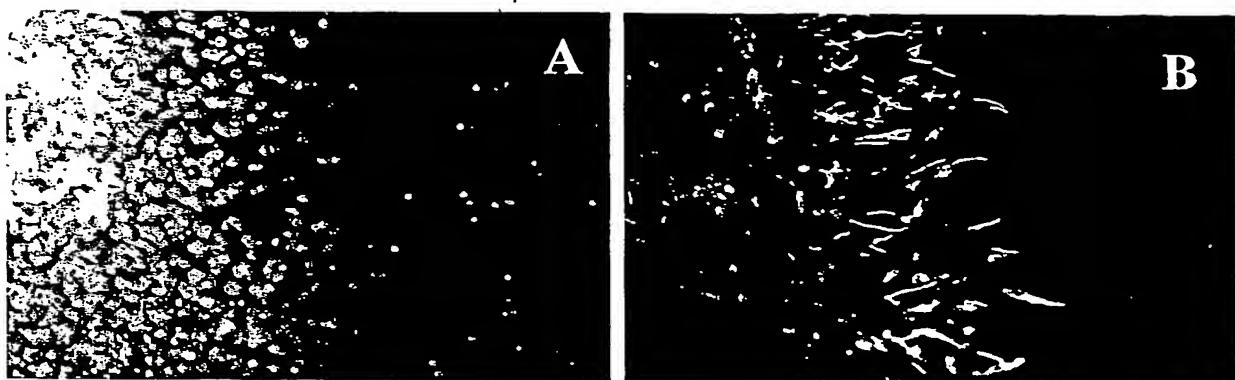
Differentiated neurons (D4)



I

J - +

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Figure 5**Figure 6**

TUNEL	PAR-4	Ceramide	Nestin	PCNA	
TUNEL	-	59	60	5	48
PAR-4	59	-	62	11	n.d.
Ceramide	60	62	-	n.d.	n.d.
Nestin	5	11	n.d.	-	51
PCNA	48	n.d.	n.d.	51	-

Total cell count: 200

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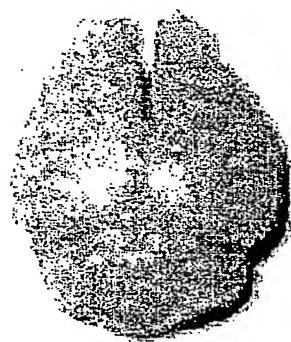
Figure 7

A

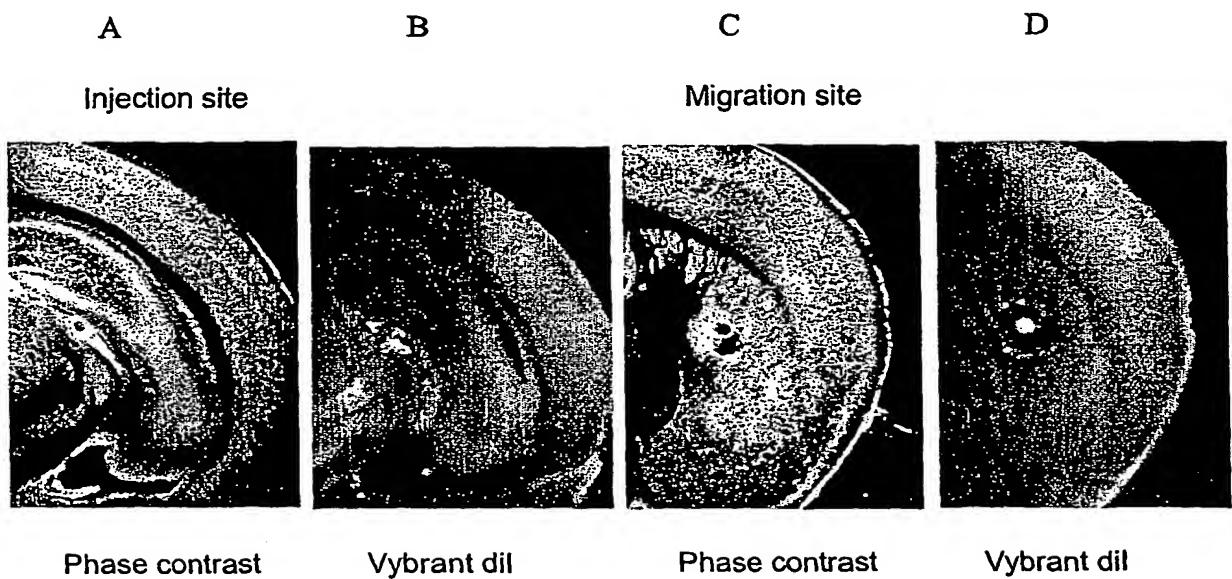
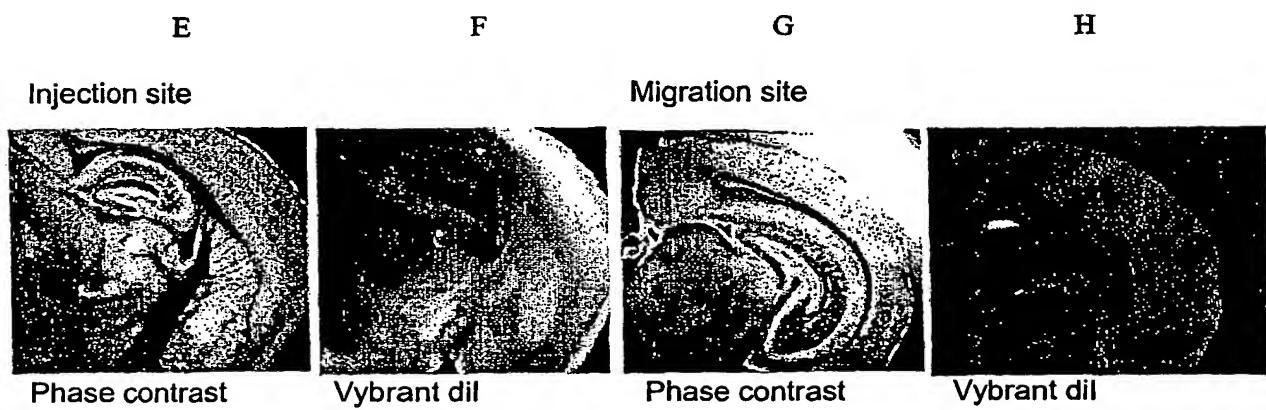


Untreated stem cells

B

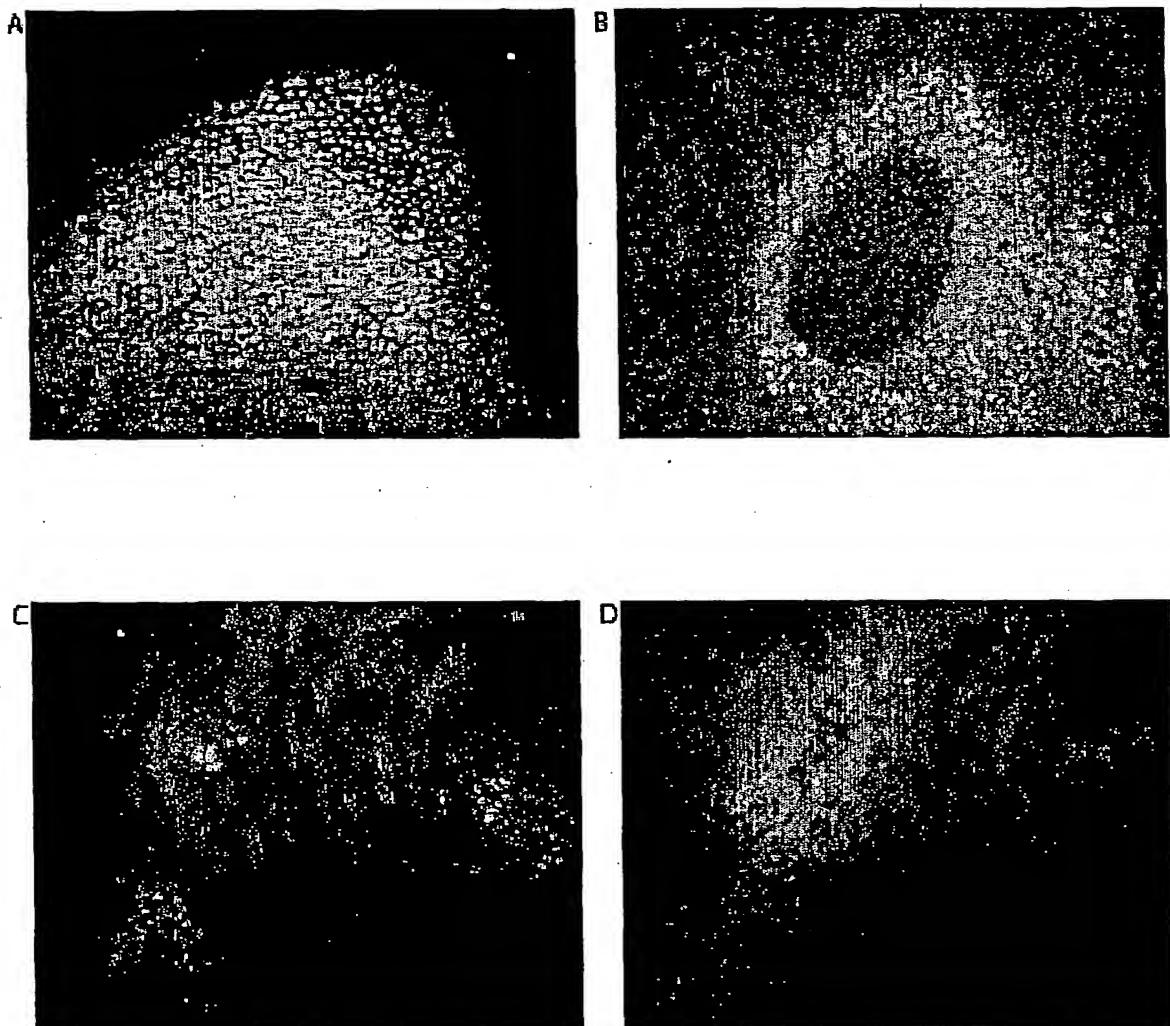


S18-treated stem cells

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Rec'd PCT/PTO 24 MAR 2005**Figure 8****Injection of untreated EB8-derived embryonic stem cells****Injection of S18-treated EB8-derived embryonic stem cells**

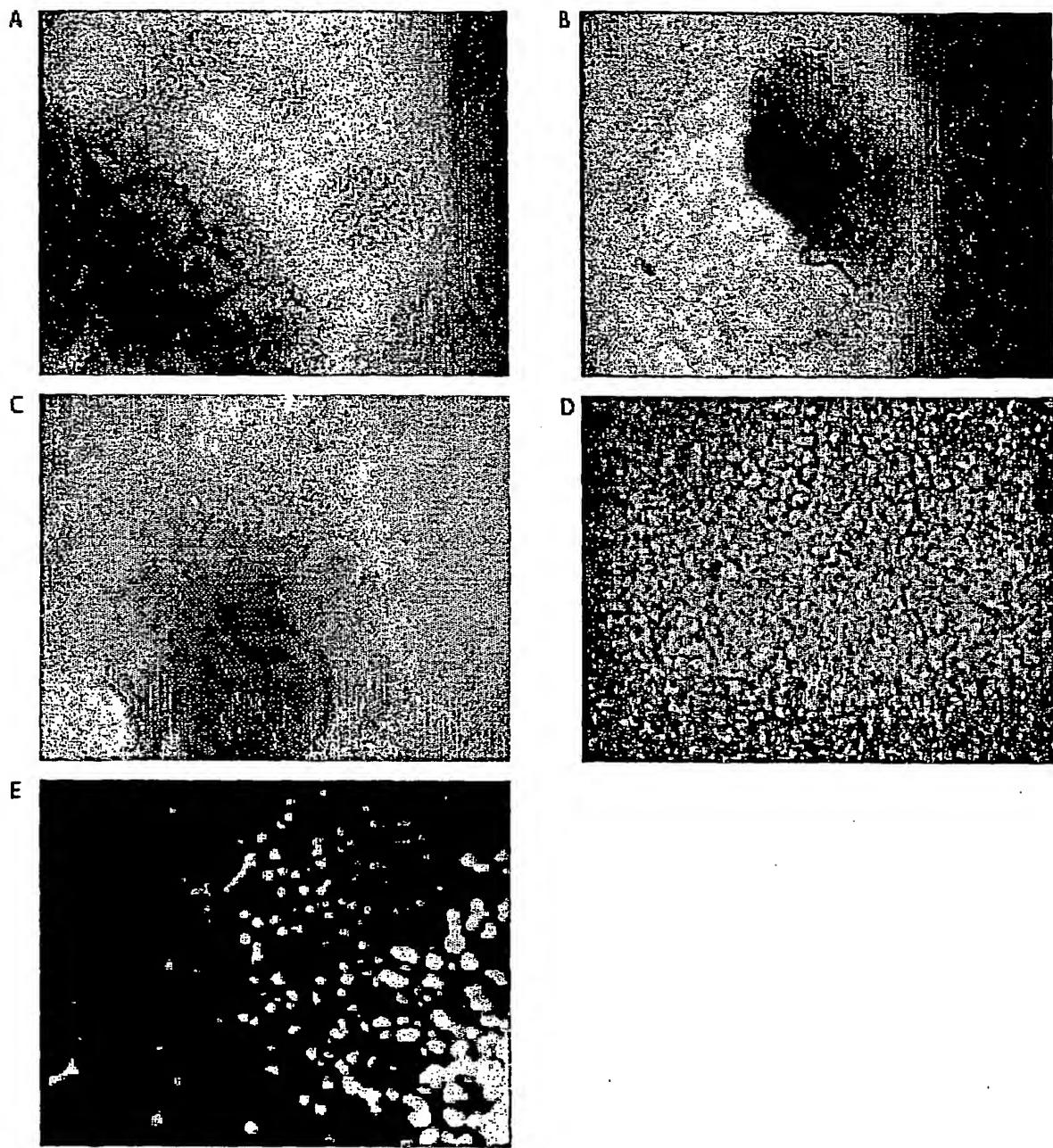
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Figure 9



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Figure 10

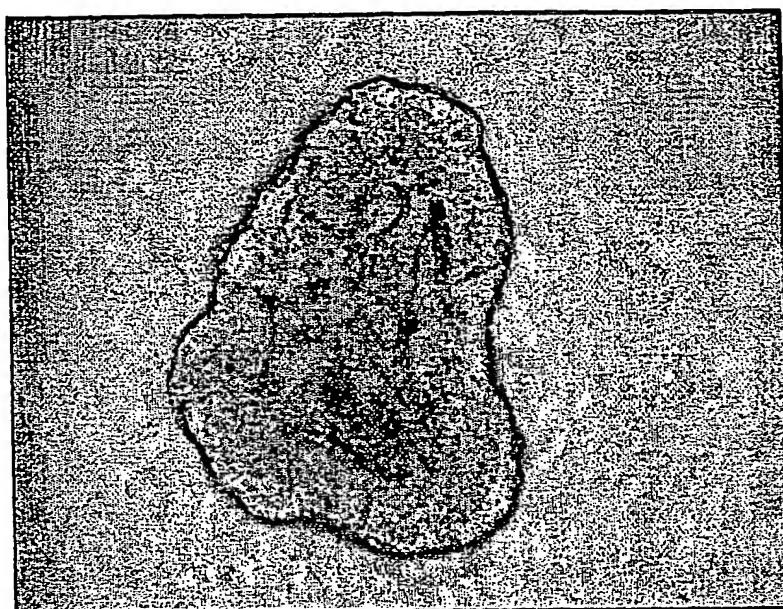


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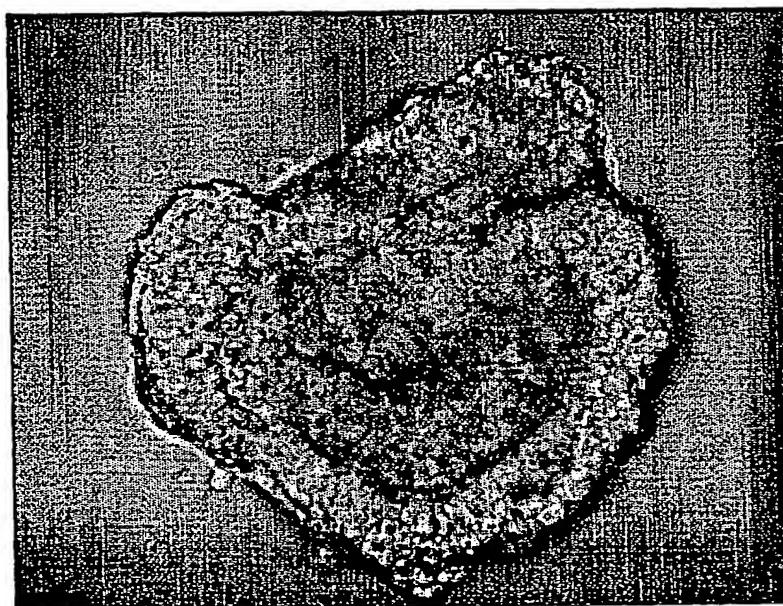
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Figure 11

A



B



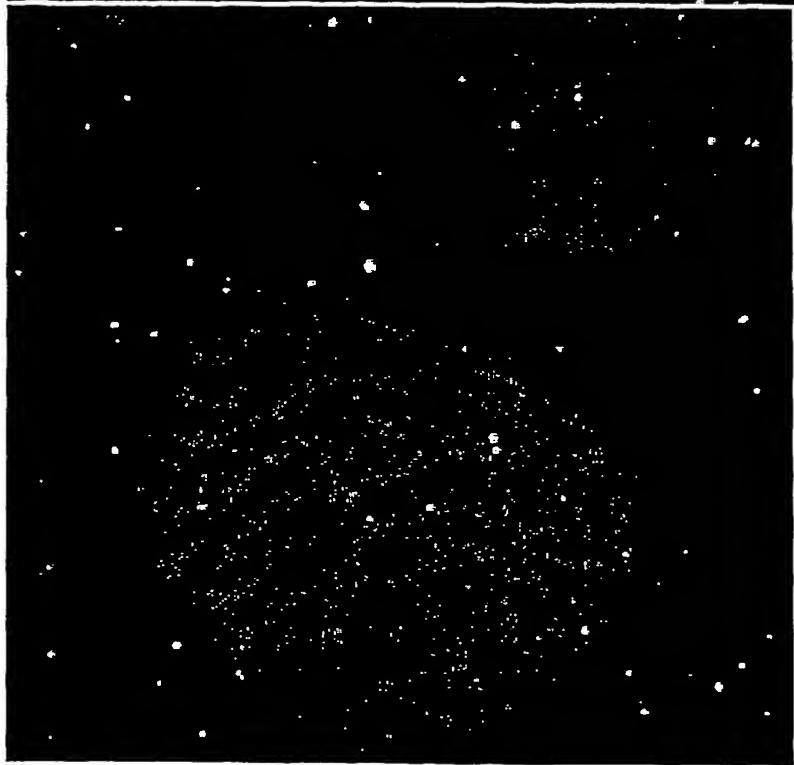
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Figure 12

A

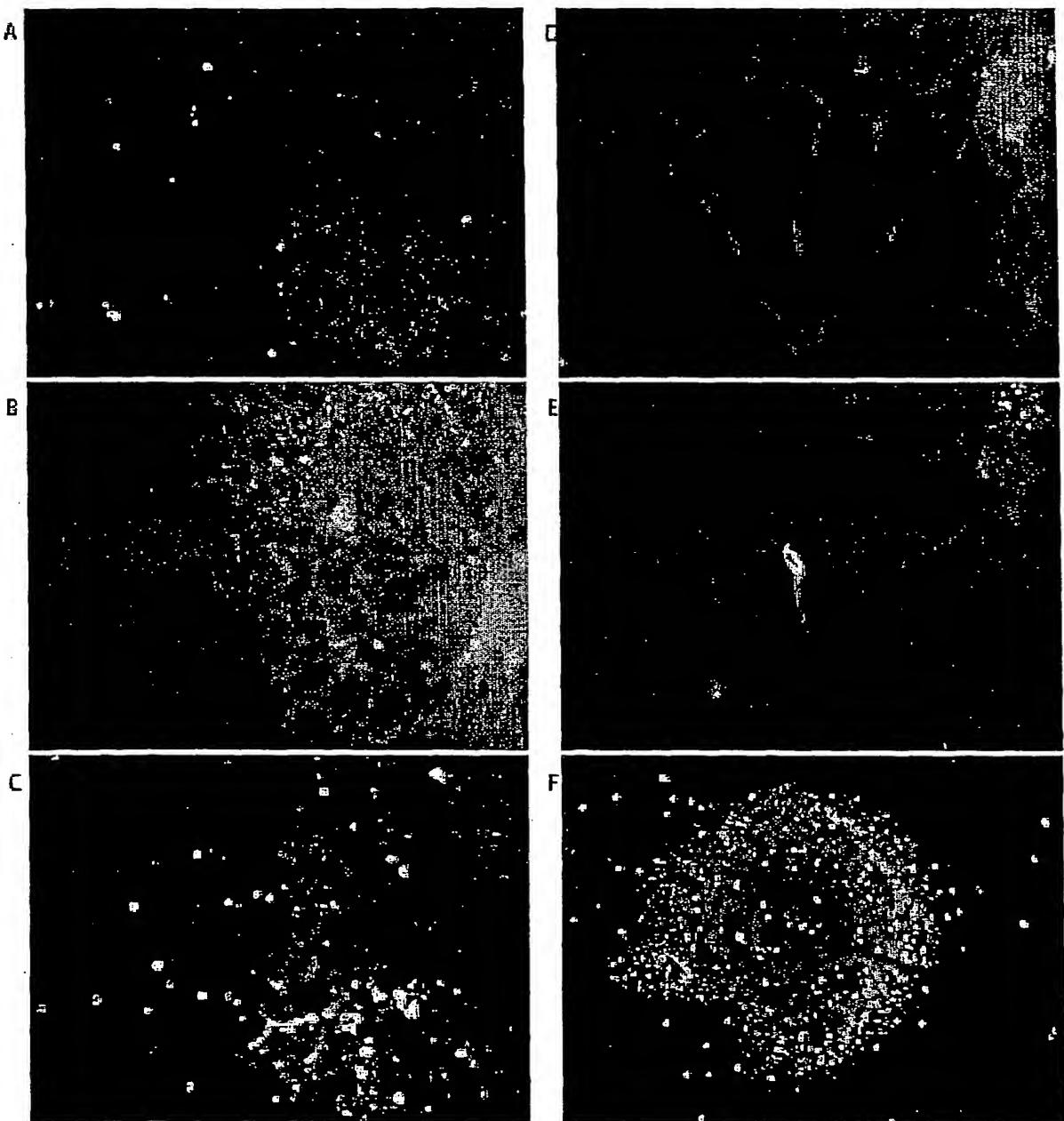


B



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Figure 13



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Figure 14

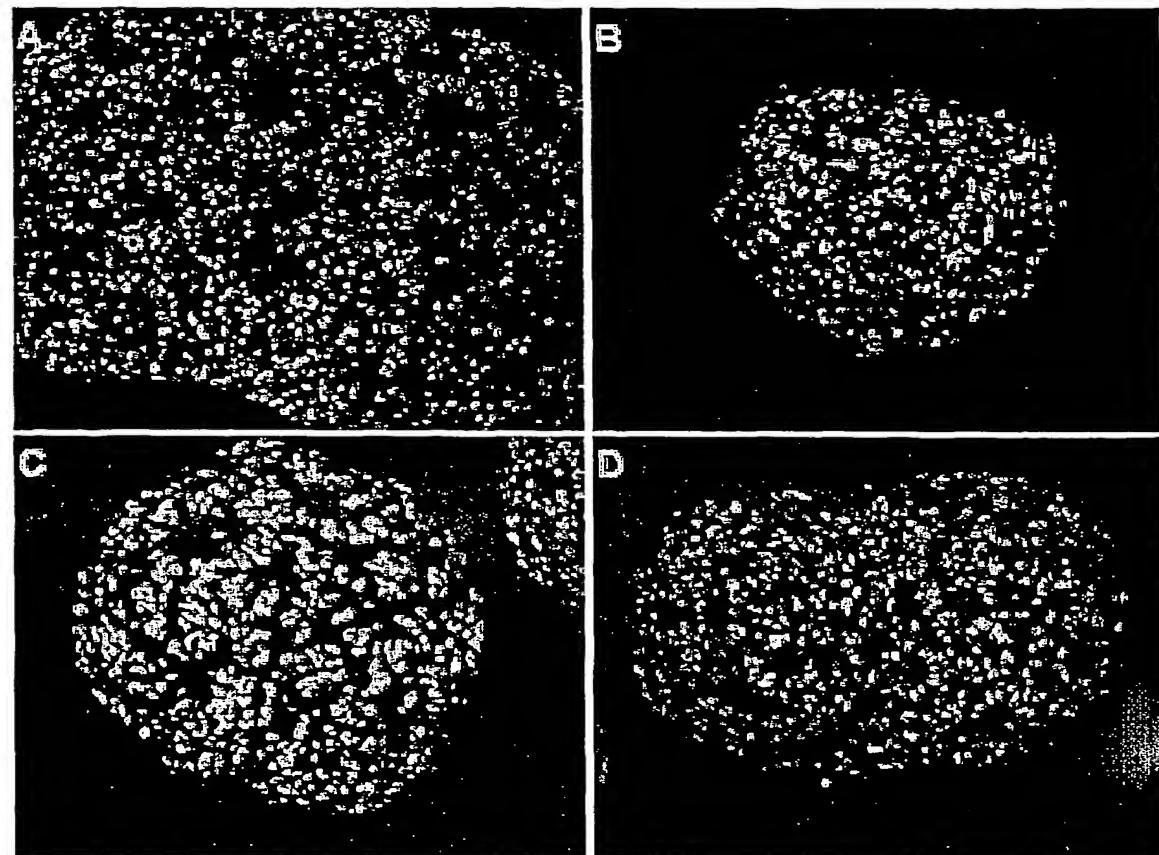


Figure 15

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EB8 NP2 D1 D4

Oct4



Vimentin



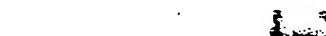
Nestin



GFAP



MAP-2



Synaptophysin



1

2

3

4

Figure 16

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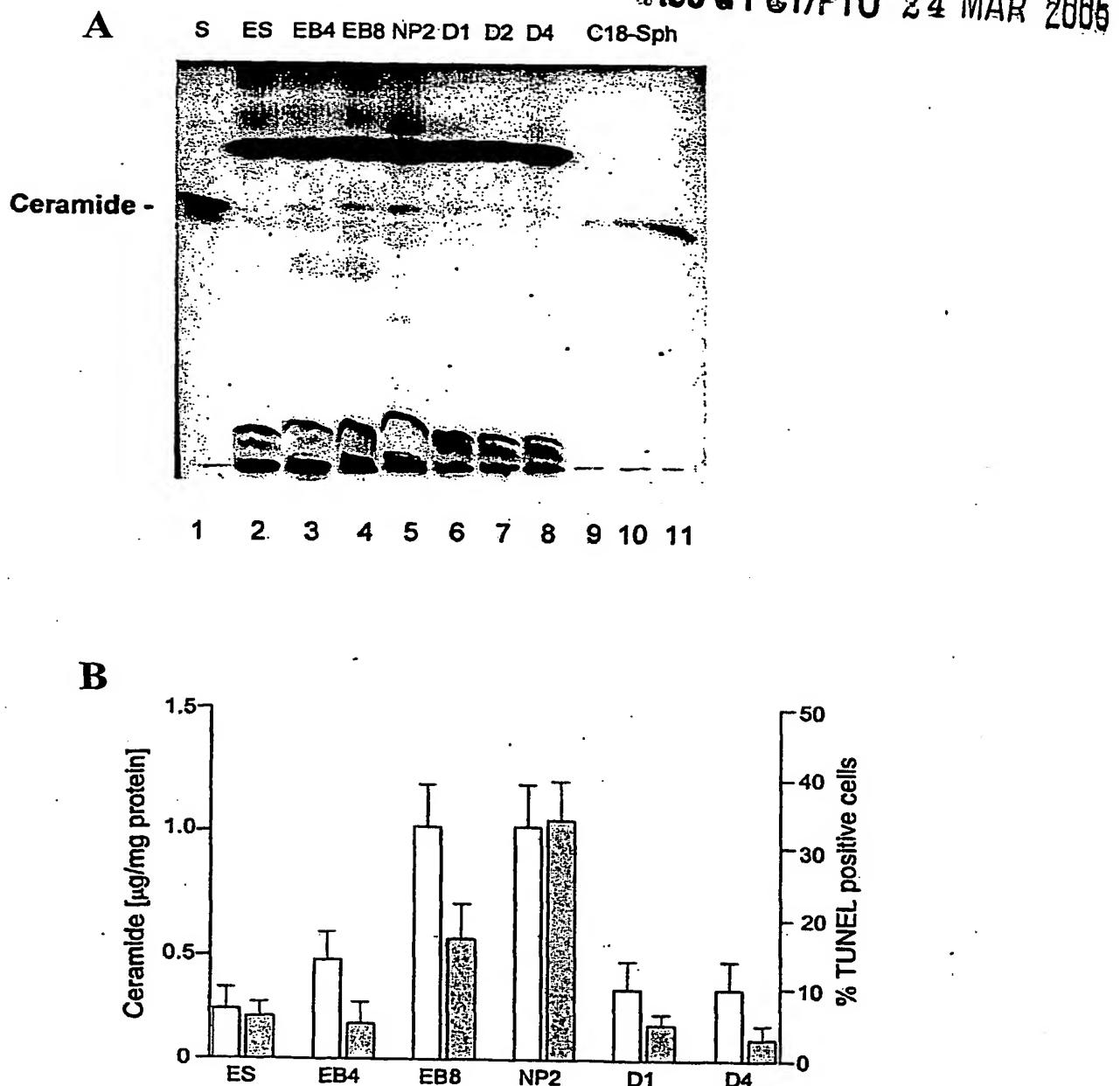


Figure 17

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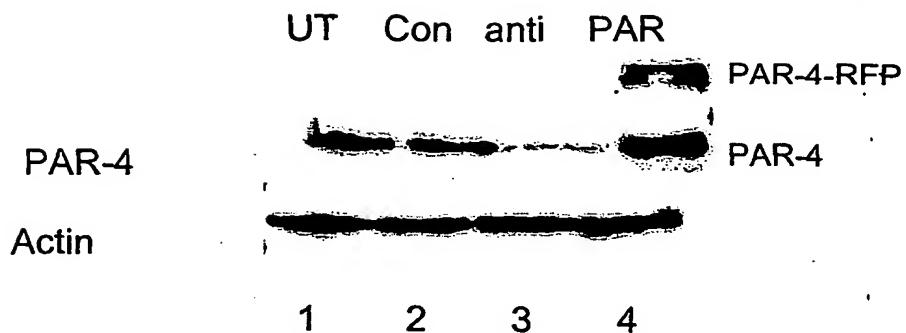


Figure 18

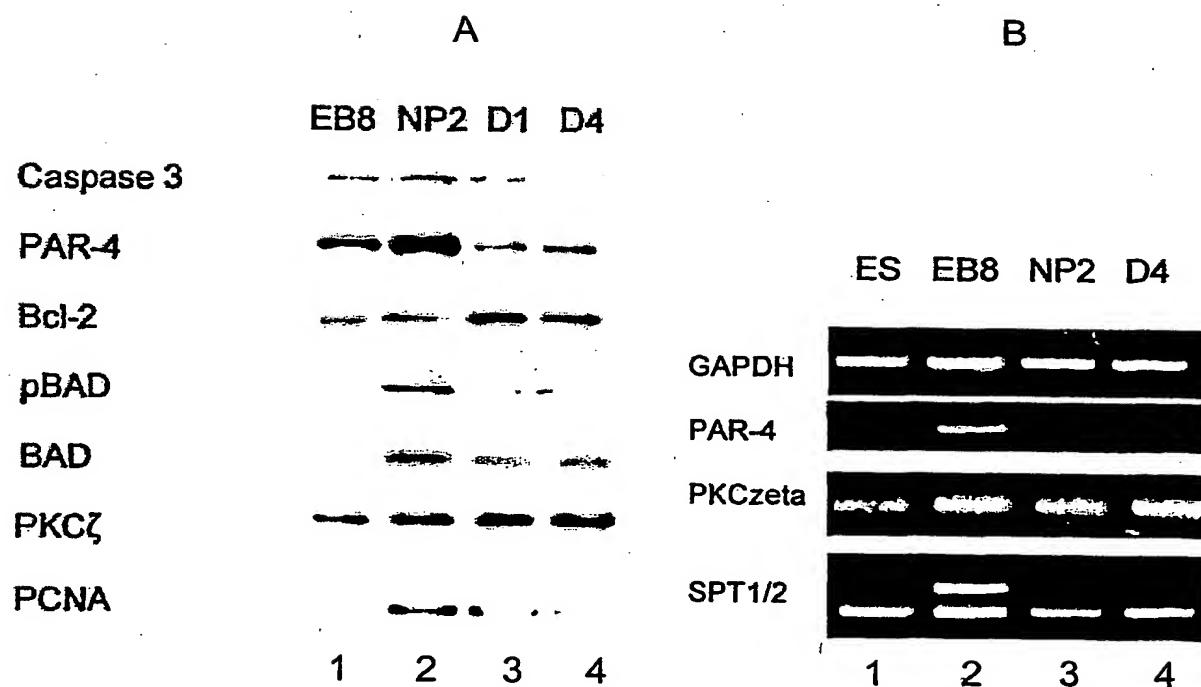


Figure 19

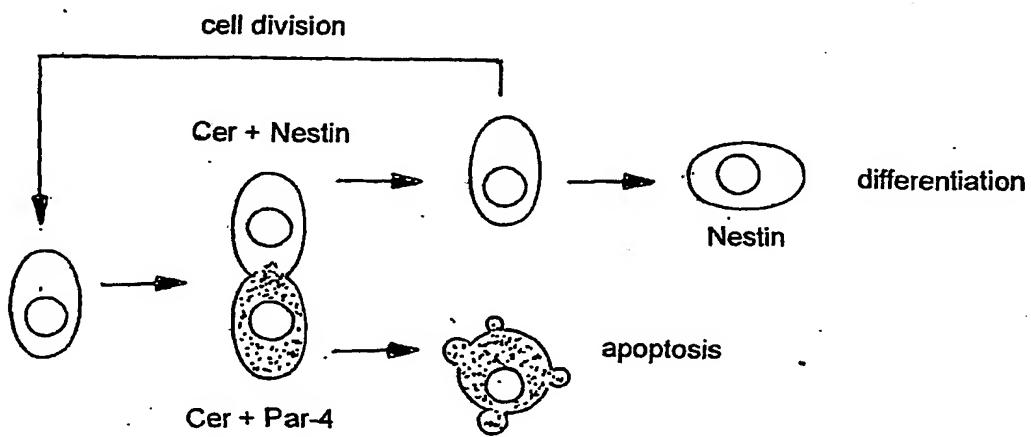
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	TUNEL+	% of TUNEL+	TUNEL-	% of TUNEL-	Total	% of total
	63+/-4		137+/-11		200	
PAR-4	59+/-6	94%	31+/-3	27%	90+/-9	45%
Nestin	5+/-2	8%	107+/-6	78%	112+/-10	56%
PCNA	47+/-5	75%	61+/-5	45%	108+/-9	54%
Ceramide	61+/-6	98%	46+/-4	34%	107+/-9	54%

Figure 20

Marker	Counts	% of total counts (n=200)	% expected if independent
A B		A + B	$f(A+B) = f(A)xf(B)$
PAR-4 + Nestin	12+/-4	6	25
PAR-4 + Ceramide	62+/-7	31	24
PCNA + Nestin	50+/-7	25	30

Figure 21



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